

Serial No: 10/810,810
251102US-229416-97-3
Preliminary Amendment

IN THE SPECIFICATION

Please replace the paragraph at page 6, paragraph [0034], with the following rewritten paragraph:

[0034] According to the embodiments of the present invention, the cryogenic refrigerator includes a pre-cooling refrigerator. The high pressure passage may include a pre-cooling portion for pre-cooling the refrigerant at the high pressure passage with the pre-cooling refrigerator. This construction is advantageous for refrigerating the refrigerant. The pre-cooling refrigerator includes a pulse tube refrigerator, a Gifford McMahon type cryogenic refrigerator, a Solvay type cryogenic refrigerator, Vilmier Vuilleumier refrigerator, and Stirling type cryogenic refrigerator, or the like.

30-31
Please replace the paragraph at page 31, paragraph [00126], with the following rewritten paragraph:

[00126] Although the compressor portion 11 serving as the pressure feeding means is shared between the main refrigerant circuit 1 and the pulse tube refrigerator 3 serving as the pre-cooling refrigerator with the foregoing embodiments, the construction is not limited. Separated compressors including a first compressor for the main refrigeration circuit 1 and a second compressor for the pre-cooling refrigerator. The pulse tube refrigerator 3 may be one stage type or three stage type, or the like. Although the pulse refrigerator 3 is used as the pre-cooling refrigerator in the foregoing embodiments, the variation of the pre-cooling refrigerator is not limited. The pre-cooling refrigerator may include Gifford McMahon type cryogenic refrigerator, Solvay type cryogenic refrigerator, Vilmier Vuilleumier refrigerator, and Stirling type cryogenic refrigerator, or the like.

*J.M.
1/22/07*